

Purchase Order Receipt Listing

Tuesday, March 28, 2017 1:48:54 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO35685 Receipt Dates from 3/28/2017 to 3/28/2017 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VU-TW/M001 TW/Metals											
PO35685 USD	2 No		M304TR0.500W.049 f 304 RD Tube .500 x .049W m137169		3/31/2017 60.0000	3/28/2017 PLOU01	60.0000 ✓		0.0000 0.0000	0 0	\$0.00
	3 No		M316TR1.00W.120 f 316 RD tubing 1.00 x .120w m137169	997 X.120	3/31/2017 12.0000	3/28/2017 PLOU01	20.0000		0.0000 0.0000	0 0	\$0.00
	4 No		M6061T6T0.375W.05 f 8 6061-T6 RD Tube .375 x.058W m137169	374 X.60	3/31/2017 80.0000	3/28/2017 PLOU01	84.0000		0.0000 0.0000	0 0	\$0.00
	5 No		M6061T6T0.625W.12 f 5 6061-T6 RD Tube 0.625 X.125W m137169	625 X.125	3/31/2017 20.0000	3/28/2017 PLOU01	24.0000		0.0000 0.0000	0 0	\$0.00
	6 No		M6061T6T1.000W.06 f 5 6061T6 RD TUBE 1.00 x .065w m137169	649 X.675	3/31/2017 20.0000	3/28/2017 PLOU01	24.0000		0.0000 0.0000	0 0	\$0.00
	7 No		71401-45 PROCUREMENT QUALITY CLAUSES m137169		3/31/2017 1.0000	3/28/2017 PLOU01	1.0000		0.0000 0.0000	0 0	\$0.00

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Total Received Quantity:											213.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$0.00
Total Balance Due Quantity:											0.0000



Packing Slip

ORDER NO.: 60628203 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT: 53.351 REQ. DATE: 03/31/17 CONFIRMED
SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA
SALES PERSON: DONNA SMALLEY SHIP BY: 03/24/17 COMMON CARRIER PREPAID
F.O.B.: SHIPPING POINT NET 30 DAYS VIA: FREIGHT: RELEASE NO.: RECEIVING PHONE: WIDTH LENGTH
CUST ORD NO.: PO35685

LINE ITEM DESCRIPTION 0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WA
CLN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS
60.000 FT 60.000 FT 60.000 FT 14.155 3

** 1 TEST REPORTS REQUIRED **
ECCN: 2B999.9 HT: YX1506712 MFG: CHINA
PO: 49336439 SLB/CL: 12-19
Export License: NLR PC: 3
Expiration Date: 0/00/00 CUSTOMER QTY: 60.000 UOM FT
MLT: CHINA

0002 37123 SMLS CD 316/L A269 1 OD X .120 WA
CLN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS
12.000 FT 20.000 FT 20.000 FT 22.560 1

** 1 TEST REPORTS REQUIRED **
ECCN: 2B999.9 HT: YX1605603 MFG: CHINA
PO: 49362755 SLB/CL: 12-24
Export License: NLR PC: 1
Expiration Date: 0/00/00 CUSTOMER QTY: 20.000 UOM FT
MLT: CHINA

0003 41952 D6061-T6 3/8 OD X .058 WA
CLN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS
80.000 FT 84.000 FT 84.000 FT 5.695 7

** 1 TEST REPORTS REQUIRED **
ECCN: FAR99 HT: 11809668 MFG: UNITED STATES
PO: 49361230 SLB/CL: 438268
Export License: NLR PC: 7
Expiration Date: 0/00/00 CUSTOMER QTY: 84.000 UOM FT
MLT: UNITED STATES

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
http://www.twmetals.com/invoice-terms.htm

8/14/08



PAGE 2

CN K6A 1K/

03/24/17
COMMON CARRIER
PREPAID

LENGTH
12 FT ML

INVOICE QTY 24.000 FT

5.541
M.I.

Export License: 60001 PC: 2
UNITED STATES

Expiration Date: 07/00/00
CUSTOMER QTY: 24.000 UOM FT
SLB/CL:221973

INVOICE QTY 24.000 FT

WT
5.400

Export License: 70002
PC: 2
UNITED STATES

SLB/CL:220852
CUSTOMER QTY:
24.000 UOM FT
Expiration Date: 0/00/00

KUEHNE AND NAGEL LTD

	PKGS	GRS WEIGHT	62.000	WIDTH	LENGTH	HGT	12.5000	1.000	2.000
			-----						62.000

BY : GS

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PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
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<http://www.twmetals.com/invoice-terms.html>

1



O'Neal High-Performance Metals Group

Packing Slip



ORDER NO.: 60628203 FROM: CRAN PAGE 3

CUST NUMBER: 1203820 NET WGT: 53.351 REQ. DATE: 03/31/17 CONFIRMED
SOLD TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA
SALESPERSON: DONNA SMALLEY
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: P035685
LINE ITEM DESCRIPTION RT 000-
SHIP BY: SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA
SHIP BY: 03/24/17
COMMON CARRIER
FREIGHT: VIA: RELEASE NO.:
RECEIVING PHONE: LENGTH UNLOAD TYPE: NONE SPECIFIED

801703-28

DATE SHIPPED

DATE FILLED

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
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0'Neal High-Performance Metals Group

Packing Slip



ORDER NO.: 60628203 FROM: CRAN PAGE 4

53.351 REQ. DATE: 03/31/17 CONFIRMED

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA
CN K6A 1K7

SHIP BY: 03/24/17

27 ENGLEHARD DRIVE
MONROE TWP
NJ 08831

CUST NUMBER: 1203820 NET WGT:
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA
SALESPERSON: DONNA SMALLEY
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: P035685
COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for confiterous non-manufactured wood packing material"

Authorized Test Report Clerk Cgm Henry Date: 3/24/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>

Producer of Premium Stainless Steel Seamless Tubes

MILT TEST REPORT

Purchaser: TW METALS-Carol Stream		Contract No.: TWM P.O.No.: M49336439		Certificate No.: 16-1-92		Date of Issue.: 2016.1.5		Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW		Process: Cold Drawn	
Steel Grade		Heat Number		Lot		Dimensions		Quantity			
TP304/TP304L		YX1506-712		12-19		1/2" x 0.049" x 20'		2300 Pieces		46,000 Feet	
Chemical Composition by Weight (%)											
Element		C		Mn		P		S		Si	
Requirements		≤0.035		≤2.00		≤0.045		≤1.00		18.00-20.00	
Ladle Analysis		0.013		0.65		0.032		0.002		0.32	
Product Analysis		0.017		0.61		0.033		0.002		0.28	
										18.31	
										8.55	
										8.05	
										8.00-12.00	
										Ni	
										Mo	
										Co	
Mechanical Properties											
Test Item		Elongation (% in 2")		Rm		Tensile Strength (PSI)		Yield Strength (PSI)			
Requirements		≥35		≥75,000		97,000/98,000		43,000/44,000		≥30,000	
Test Results		63/64									
Test Item		Reduction of Area Z (%)		Hardness		Cold Bend		Flaring		Flattening	
Requirements				HRB≤80		Test		Test		Test	
Test Results				77/79				Passed		e=0.09	
Test Item		Eddy Current Test		Air Underwater Pressure Test		Ultrasonic		Intergranular Corrosion Test		Macroscopic Inspection	
Requirements		ASTM E 426						ASTM A262 E		End Cut	
Test Results		Passed						OK		OK	
Test Results								OK		Appearance	
PED Certified by SZUTEST 2195-PED-152600 ISO 9001:2008 Certified by Intertek 110703068											

Additional Remarks: (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes

CANNOT CERTIFY COMPLIANCE
FAR BAA / DEARS BAA / FAR TAA

- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Sect
- (4) Materials is NACE MR0175/ISO 15156-2003 compila
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

James Shi / Manager
Quality Control Department

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



MILL TEST REPORT

Producer of Premium Stainless Steel Seamless Tubes

Purchaser: TW METALS-Cranbury	Certificate No.: 2017-1-87	Date of Issue: 2017.1.11
Contract No.: TWM P.O.No.: M49362755	Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW	Delivery Condition: OD Polished to 240 Grit
Process: Cold Drawn	Quantity	

Steel Grade	Heat Number	Lot Number	Dimensions	Pieces	Feet
TP316/TP316L	YX1605-603	12-24	1"x0.120"x20"	75	1,500

Chemical Composition by Weight (%)						
Element	C	Mn	P	S	Si	Cr
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	16.00-18.00
Ladle Analysis	0.020	0.66	0.032	0.001	0.40	16.69
Product Analysis	0.015	0.60	0.035	0.003	0.34	17.02
						10.12
						2.02
						-

Mechanical Properties						
Test Item	Elongation (% in 2")	Tensile Strength (PSI)	Yield Strength (PSI)	Rp / 0.2%	Flattening	Flange
Requirements	≥35	≥75,000	≥30,000			
Test Results	65/66	78,000/79,000	36,000/37,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend	Flaring	Flattening	Flange
Requirements	-	HRB≤80	Test	Test	Test	Test
Test Results	-	73/75	-	25%	e=0.09	-
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection	Appearance
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	OK
Test Results	Passed	-	-	OK	OK	OK

ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS
PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

(1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes

- (2) All tubes tested per ASTM A1016-14
 (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
 (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
 CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA

- (5) In Compliance with EN 10204-3.1
 (6) In Compliance with RoHS Stipulation
 (7) No weld repair performed
 (8) Free from mercury contamination
 (9) Free from radioactive contamination
 (10) Billets melt and pipes/tubes manufactured in China
 (11) All tubes 100% PMI tested
 (12) All tubes 100% Eddy Current tested

We hereby certify that this report is true and correct.

James Shi / Manager

Quality Control Department

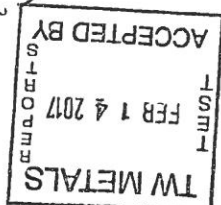
Jiangsu Pufa Stainless Steel Tube Co., Ltd.

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China



By:

James Shi



Control No: 2839

PRECISION TUBE CO.
287 WISSAHICKON AVE.
NORTH WALES PA 19454



CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO.	M 49361230 LINE 001
CUST. ORD. NO.	438268
PRECISION TUBE P/N	24A037500580006

SOLD TO: TW METALS 235 TUBEWAY CAROL STREAM, IL 60188 UNITED STATES	SHIP TO: TW METALS 235 TUBEWAY CAROL STREAM, IL 60188 UNITED STATES
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QUANTITY ORD.	DESCRIPTION	QTY. SHIPPED	DATE SHIPPED
---------------	-------------	--------------	--------------

4008 FT	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082B AMS-WW-T-700/6C ASTM-B-210-12	4188 FT	12/21/16
LENGTH - 12 FT LGTH TOL. +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .3750 +.0030 -.0030 WALL .0580 +.0040 -.0040			

SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	44,103	37,550	20		

DESTRUCTIVE TESTS

Comments: FAR BAA COMPLIES, DPARS BAA COMPLIES, FAR TAA COMPLIES

NON-DESTRUCTIVE TESTS

EDDY CURRENT: PASS

CHEMICAL COMPOSITION

ALLOY: 6061		HEAT: 1180968		RAW MATL. VENDOR: Kaiser Aluminum		1180968		1180968	
Si	0.40	Fe	0.15	Cu	0.15	Mn	0.80	Mg	0.04
Cr	0.35	Zn	0.25	Al	Rem.				
Max		0.80		0.70		0.40		0.15	
Min		0.40		0.15		0.80		1.20	
OTHER ELEMENTS:		0.05 MAX EACH		0.15 MAX TOTAL					

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgment. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

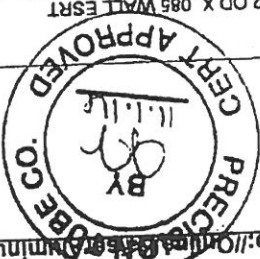
Art Onaldis
QA Manager

12/21/16
Page: 1 of 1

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CERTIFIED TEST REPORT
http://www.kaiser-aluminum.com



CUSTOMER PO NUMBER: PT07874		SHIP TO: PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA	
CUSTOMER PART NUMBER: SPIRIT-371850	PRODUCT DESCRIPTION: 5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT	KAISER LOT NUMBER: 50751-347	SHIP DATE: 10/28/2016
KAISER ORDER NUMBER: 320897	QUANTITY: 1950.000 PCS	B/L NUMBER: 006171	SOLD TO: MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE. 150 MEMPHIS, TN 38125 USA
WEIGHT SHIPPED: 10769.000 LB	DIAM/DAF/THKNS: 1.312	WIDTH: 0.085	LENGTH: 13.984 FT

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%ELONG IN 2	HARDNESS	CONDUCT.	BEND
50751-347	0001	0001	18.7	5.9	27.2	NA	NA	NA
50751-347	0001	0002	18.4	5.5	27.8	NA	NA	NA
50751-347	0001	0003	18.3	5.5	26.7	NA	NA	NA
50751-347	0001	0004	18.0	5.5	27.2	NA	NA	NA
50751-347	0001	0005	18.3	5.9	27.6	NA	NA	NA
50751-347	0001	0006	17.7	5.6	26.8	NA	NA	NA
50751-347	0001	0007	18.3	5.9	25.7	NA	NA	NA
50751-347	0001	0008	18.6	5.7	26.5	NA	NA	NA
50751-347	0001	0009	18.2	5.5	26.0	NA	NA	NA
50751-347	0001	0010	18.6	5.8	28.6	NA	NA	NA
50751-347	0001	0011	18.5	5.7		NA	NA	NA

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Tl	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15
Minimum	0.40	0.00	0.00	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	.02
Typical	.58	.30	.22	.06	1.03	.09	.08	.03	.00	.00	.00	.01	.02

Applicable Requirements:

ASTM-B241-16 NON-STENCILED ASTM-B221-14 ASTM-B345-11 AMS-QQ-A-200/3A TYPE I
UNS#A96061 Also conforms to EN 10204 3.1

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.



Plant Serial: 00015006
Kaiser Order Number: 320897
Line Item: 001

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

CERTIFICATION
Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

[Signature]
JOSEPH AMES, QUALITY MANAGER



Plant Serial: 00015006
Kaiser Order Number: 320897
Line Item: 001

Best in Class

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER:		M49360917-1		CUSTOMER PART NUMBER:		42588	
KAISER ORDER NUMBER:		221973		SHIP DATE:		12/05/2016	
WEIGHT SHIPPED:		239,000 LB		B/L NUMBER:		223667	
SHIP TO:		TW METALS INC 27 ENGELHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA					
PRODUCT DESCRIPTION:		Drawn Seamless Tube/Pipe KAISER LOT NUMBER: F00229976 ALLOY: 6061 TEMPER: T6 LENGTH: 12,000 FT					
SOLD TO:		TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA					

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00229976	0001	1	46.9	40.5	17.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D76008	.59	.26	.22	.04	1.00	.10	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250", Wall: 0.1250", Round @
 AMS4082P AMS-WW-T-700/6C ASTM B210-12 WM-T-700/6F
 WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
 This Product Complies to FAR BAA, DEARS BAA, FAR TAA
 COMPLIES TO DIN EN 10204 JAN 2005
 No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT-SUPPLIES), DEARS BAA
 (DEARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
 TRADE AGREEMENTS).





Hans Kattenidt, Quality Manager

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file subject to examination.

CERTIFICATION

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

KAISER
ALUMINUM
FABRICATED PRODUCTS



CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

Best in Class

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49353002-1		CUSTOMER PART NUMBER: 43284		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 220852		SHIP DATE: 07/15/2016		KAISER LOT NUMBER: F00218927	
WEIGHT SHIPPED: 739.000 LB		B/L NUMBER: 222328		DIAW/DAF/THKNS: 6061	
QUANTITY: 274.000 PCS		SHIP TO: TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA		SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA	
TEMPER: T6		LENGTH: 12.000 FT		WIDTH: 6061	

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00218927	0001	1	47.7	39.9	20.5	N/A	N/A	N/A
F00218927	0002	1	47.7	40.9	18.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D75918	.58	.31	.22	.06	.99	.10	.06	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 1.0000", Wall: 0.0650", Round @
AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
AMS 4082P WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DEARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT-SUPPLIES), DEARS BAA
(DEARS 252.225-7001 BUY AMERICAN ACT & BAL. OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00022571
Kaiser Order Number: 220852
Line Item: 001

Page 2 of 2



Hans Kattentidt, Quality Manager

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms conditions of sale. Test reports are on file subject to examination.

CERTIFICATION

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

KAISER
ALUMINUM
FABRICATED PRODUCTS



CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M316T8100W.100 DATE: 17-04-03

MATERIAL CERT REC'D: 45
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .120"
 THICKNESS RECEIVED: .120"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

PO / BATCH NO.: PO35685/M137169

DESCRIPTION	NCR (Check Y/N)	COMMENTS
-------------	-----------------	----------

<input checked="" type="checkbox"/>	Y	SURFACE DAMAGE
<input checked="" type="checkbox"/>	Y	CORRECT FINISH
<input checked="" type="checkbox"/>	Y	CORROSION
<input checked="" type="checkbox"/>	Y	CORRECT GRAIN DIRECTION
<input checked="" type="checkbox"/>	Y	CORRECT MATERIAL
<input checked="" type="checkbox"/>	Y	CORRECT THICKNESS
<input checked="" type="checkbox"/>	Y	PHOTO REQUIRED
<input checked="" type="checkbox"/>	Y	CORRECT MATERIAL
<input checked="" type="checkbox"/>	Y	CORRECT REF # TO LINK CERT
<input checked="" type="checkbox"/>	Y	CORRECT MATERIAL IDENTIFICATION
<input checked="" type="checkbox"/>	Y	CORRECT M# ON THE MATERIAL
<input checked="" type="checkbox"/>	Y	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF
<input checked="" type="checkbox"/>	Y	DOES THIS REQUIRE AN EXTRUSION REPORT

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: CB 9-89

DATE: 17-04-03

SIGNED OFF BY: _____

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304H80500 W10.44
DATE: 17-04-03

PO / BATCH NO.: P035685/M137169

MATERIAL CERT REC'D: 45
QUANTITY RECEIVED: 60'
QUANTITY INSPECTED: 60'
QUANTITY REJECTED: 0

THICKNESS ORDERED: .049"
THICKNESS RECEIVED: .049"
SHEET SIZE ORDERED: 1/4
SHEET SIZE RECEIVED: 1/4

DESCRIPTION	NCR (Check Y/N)	COMMENTS
-------------	-----------------	----------

SURFACE DAMAGE	Y	(N)
CORRECT FINISH	Y	(N)
CORROSION	Y	(N)
CORRECT GRAIN DIRECTION	Y	(N)
CORRECT MATERIAL	Y	(N)
CORRECT THICKNESS	Y	(N)
PHOTO REQUIRED	Y	(N)
CORRECT MATERIAL	Y	(N)
CORRECT REF # TO LINK CERT	Y	(N)
CORRECT MATERIAL IDENTIFICATION	Y	(N)
CORRECT # ON THE MATERIAL	Y	(N)
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.					
RECORD RESULTS BELOW					
	TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
	SIZE OF TEST SAMPLE				
	HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION
ENGINEERING SIGNOFF (if required)
INSPECTED BY: [Signature]
DATE: 17-04-03
SIGNED OFF BY:
DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6616H.00X065

DATE: 17-04-03

MATERIAL CERT REC'D: yes

QUANTITY RECEIVED: 24

QUANTITY INSPECTED: 24

QUANTITY REJECTED: 0

PO / BATCH NO.: P035685/M137169

THICKNESS ORDERED: .065"

THICKNESS RECEIVED: .067"

SHEET SIZE ORDERED: N/A

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT # ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.	RECORD RESULTS BELOW	TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUROMETER READING
		HRC		
		HRB		
		DUR A		
		DUR D		

Testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: 9-59 CB

DATE: 17-04-03

SIGNED OFF BY: _____

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

H:\FORMS\Quality Assurance\approved QA\MRIF Material Receipt Inspection Form revB

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6016+0.635u.125 DATE: 17-04-03

PO / BATCH NO.: 0035685/M137169

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.125"
 THICKNESS RECEIVED: 0.126"
 SHEET SIZE ORDERED: 1/4
 SHEET SIZE RECEIVED: 1/4

DESCRIPTION	NCR (check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: [Signature] DATE: 17-04-03

SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176 + 0.375w, 0.058
DATE: 17-04-03

THICKNESS ORDERED: 0.058"
THICKNESS RECEIVED: 0.061"
SHEET SIZE ORDERED: A1/A
SHEET SIZE RECEIVED: A1/A

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 84'
QUANTITY INSPECTED: 84'
QUANTITY REJECTED: 0

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	ASTM B210
CORRECT MATERIAL IDENTIFICATION	Y	#T#1180968
CORRECT M# ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.	HRC	HRB	DUR A	DUR D
RECORD RESULTS BELOW				
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION
ENGINEERING SIGNOFF (if required)
INSPECTED BY: OR
DATE: 17-04-03
SIGNED OFF BY: _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID P035685
Purchase Order Date 3/23/2017
PO Print Date 3/23/2017
Page Number 1 of 4

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ALANTA, GA 31193-3014
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
MAR 23 2017

Contact Name	Vendor Phone	585 768 5600	Buyer	Chantal Lavoie
Ship To Contact	Ship To Phone	YRC COLLECT	Customer POID	10127-2607
Ship Via:	Ship Acct:		Customer Tax #	Net 30
			Currency	USD
			FOB	FCA - (Free Carrier)

Line	Reference	Nbr	Vendor Part Number	Description/ Mfg ID	Reg Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
------	-----------	-----	--------------------	------------------------	----------------------	----	--------------------------------	---------------	-------------------

1	M304TR0.500W.035			304 RD Tube .500 x .035W	3/31/2017	Yes	20.00	\$1.50	\$30.00
MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269									
Delivery Comments									

2	M304TR0.500W.049			304 RD Tube .500 x .049W	3/31/2017	Yes	60.00	\$2.80	\$168.00
MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269									
Delivery Comments									

Line Total: \$168.00

Line Total: \$30.00

Note:

3/23/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO35685
Purchase Order Date 3/23/2017
PO Print Date 3/23/2017
Page Number 2 of 4

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ALANTA, GA 31193-3014
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

3 M316TR1.00W.120

316 RD tubing 1.00 x .120w

3/31/2017

Yes

3/31/2017

MATERIAL: AISI 316 SA SEAMLESS ROUND TUBING
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

NOTE: 304 NOT ACCEPTABLE 316 REQUIRED

3/31/2017

Yes

3/31/2017

6061-T6 RD Tube .375 x.058W

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

Note:

3/23/2017

Buyer
Customer POID
Customer Tax #
Terms
Currency
FOB

Chantal Lavoie
10127-2607
Net 30
USD
FCA - (Free Carrier)

80.00

F

new 81 ft
7 pc

\$2.15

\$60.00

\$172.00

\$172.00

Line Total:

8817-03-28



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO35685

Purchase Order Date 3/23/2017
PO Print Date 3/23/2017

Page Number 3 of 4

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ALANTA, GA 31193-3014
US
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600
Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:
YRC COLLECT

Buyer
Customer POID
Customer Tax #
Terms
Currency
FOB
FCA - (Free Carrier)

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

5 M6061T6T0.625W.125

3/31/2017
Yes

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

6 M6061T6T1.000W065

3/31/2017
Yes

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

20.00

\$5.15

20.00

\$2.96

Line Total:

\$103.00

Line Total:

\$59.20

Note:

3/23/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO35685
Purchase Order Date 3/23/2017
PO Print Date 3/23/2017
Page Number 4 of 4

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ALANTA, GA 31193-3014
US
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name	Vendor Phone	Ship To Contact	Ship To Phone	Ship Via:	Ship Acct:	7	71401-45	PROUREMENT	3/31/2017	No	3/31/2017	1.00	\$0.00	\$0.00
Chantal Lavoie	585 768 5600			YRC COLLECT		Buyer		Customer POID		Customer Tax #		Terms	Net 30	USD
						Customer POLD		Customer Tax #		FOB		Currency	FCA - (Free Carrier)	

801403-28

Line Total:

\$0.00

PO Total:

\$592.20

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 3/23/2017